

## ABSTRACT OF THE DISCLOSURE

A system for monitoring and managing optical networks. The system includes tapping a test signal from optical signals in the optical network, routing the test signals through a Nx1 switch, to a 1xN switch, to a selected test device. A  
5 processor controls the switching and monitors the test results, and initiates corrective action as required. The corrective action includes grooming and rerouting signals in the optical network in response to a failure or risk of failure.